

Active Recombinant Mouse Cxcl12 Protein (Gly21-Lys89), C-His tagged, Animal-free, Carrier-free

Cat. No. Cxcl12-80M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Cxcl12 Protein (Gly21-Lys89) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Mouse
Source	E.coli
ProteinLength	Gly21-Lys89
Description	C-X-C motif chemokine 12 (CXCL12) also named stromal cell-derived factor 1 (SDF-1), which is a chemokine of the intercrine alpha family. CXCL12 is a 7.8 kDa protein containing 70 amino acid residues. CXCL12 has a key role in controlling the immune responses which is often induced by the lipopolysaccharide or IL-1. CXCL12 also activates the leukocytes during inflammation. CXCL12 induces the migration and proliferation of cells like hematopoietic progenitor, stem cells and leukocytes.
Form	Lyophilized
Bio-activity	Measure by its ability to chemoattract BaF3 cells transfected with human CXCR4. The ED50 for this effect is < 0.5 ng/mL.
Molecular Mass	The protein has a calculated MW of 8.97 kDa. The protein migrates below 11 kDa under reducing condition (SDS-PAGE analysis).

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Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

GENE INFORMATION

Gene Name	Cxcl12 chemokine (C-X-C motif) ligand 12 [Mus musculus (house mouse)]
Official Symbol	Cxcl12
Synonyms	CXCL12; chemokine (C-X-C motif) ligand 12; stromal cell-derived factor 1; C-X-C motif chemokine 12; pre-B cell growth-stimulating factor; pre-B-cell growth-stimulating factor; thymic lymphoma cell-stimulating factor; 12-O-tetradecanoylphorbol 13-acetate repressed protein 1; Pbsf; Sdf1; Tlsf; Sdf1a; Sdf1b; Tlsfa; Tlsfb; Tpar1; Scyb12; AI174028;
Gene ID	20315

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mRNA Refseq	NM_001012477
Protein Refseq	NP_001012495
UniProt ID	P40224

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